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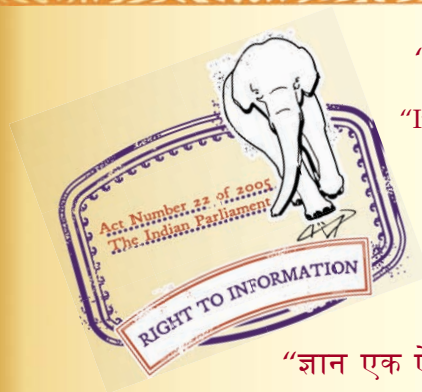
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IS 5575-2 (1978): Temperature Control Devices for Quartz Crystal Units (Heating Type), Part 2: Pin Connections and Bases [LITD 5: Semiconductor and Other Electronic Components and Devices]



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“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

SPECIFICATION FOR
TEMPERATURE CONTROL DEVICES FOR
QUARTZ CRYSTAL UNITS (HEATING TYPE)

PART II PIN CONNECTIONS AND BASES

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SPECIFICATION FOR TEMPERATURE CONTROL DEVICES FOR QUARTZ CRYSTAL UNITS (HEATING TYPE)

PART II PIN CONNECTIONS AND BASES

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Indian Standard

SPECIFICATION FOR TEMPERATURE CONTROL DEVICES FOR QUARTZ CRYSTAL UNITS (HEATING TYPE)

PART II PIN CONNECTIONS AND BASES

0. FOREWORD

0.1 This Indian Standard (Part II) was adopted by the Indian Standards Institution on 13 September 1978, after the draft finalized by the Piezoelectric Devices for Frequency Control and Selection Sectional Committee had been approved by the Electronics and Telecommunication Division Council.

0.2 The object of this standard is to specify the pin connections of the temperature control devices for crystal units and the dimensions of the bases used with them.

0.3 This standard requires reference to IS : 5575 (Part I)-1970*.

0.4 While preparing this standard, assistance has been derived from IEC Pub 314-1970 'Temperature control devices for quartz crystal units', issued by the International Electrotechnical Commission.

0.5 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960†. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard (Part II) covers the pin connections of the temperature control devices for crystal units (TCD) and the dimensions of the bases used with them.

*Specification for temperature control devices for quartz crystal units : Part I General requirements and tests.

†Rules for rounding off numerical values (*revised*).

2. TERMINOLOGY

2.1 For the purpose of this standard, the following definitions in addition to those specified in IS : 5575 (Part I)-1970* shall apply.

2.1.1 Base Drawing — A drawing which includes the dimensional characteristics of the base required for compatibility with the socket and interchangeability of temperature control devices of which it is a part, as far as fitment is concerned.

2.1.2 Base Diameter — The major or greater diameter of the base.

2.1.3 Locating Guide — That portion of the base specifically designed to position the temperature control devices in the socket.

Example :

Bayonet pin, spigot and key or keyway, index guide and similar devices.

2.1.4 Datum Line — A radial line used as a reference for numbering base pins or contacts.

3. DIMENSIONS OF BASE

3.1 The dimensions of the octal pin base adopted for temperature control devices will be in accordance with **3** of IS : 2684 (Part III)-1971†.

NOTE — This corresponds with the octal pin base of sheet 67-I-5a of IEC Pub 67.

3.1.1 The gauge recommended for checking the dimensions of the octal pin base shall be in accordance with **5** of IS : 2684 (Part III)-1971†.

NOTE — This corresponds with the octal base of sheet 67-I-5b of IEC Pub 67.

3.2 The dimensions of shell of a small wafer octal base adopted for temperature control devices shall be as given in Table 1.

4. PIN CONNECTION

4.1 Temperature Control Devices on Octal Bases — The shell with octal base shall be in accordance with **3.2**. This shall be used with a crystal unit of either the holder type AA or the holder AB in accordance with sheet 1 of IS : 4570-1968 ‡.

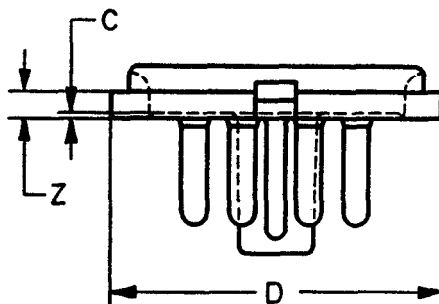
*Specification for temperature control devices for quartz crystal units: Part I General requirements and tests.

†Dimensions of electronic valves: Part III Octal base type.

‡Specification for crystal holders.

TABLE 1 DIMENSIONS OF SHELL OF A SMALL WAFER OCTAL BASE

(Clause 3.2)
All dimensions in millimetres.



REFERENCE

	DIMENSIONS		
	Minimum	Nominal	Maximum
C	—	—	0.50
D	32.29	—	33.32
Z	—	2.54	—

NOTE — This corresponds with the shells of a small wafer octal base of sheet 67-I-5c of IEC Pub 67.

4.1.1 For one heater winding the standard connections shall be as shown in Fig. 1.

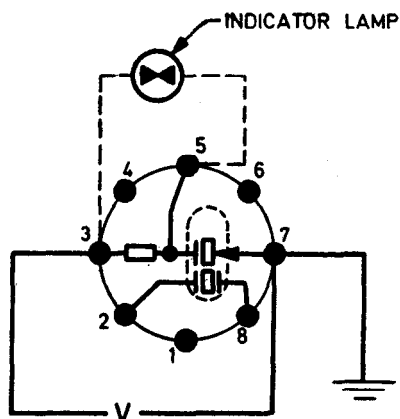


FIG. 1 PIN CONNECTION INTERNATIONAL OCTAL

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PIEZOELECTRIC DEVICES FOR FREQUENCY CONTROL AND SELECTION

IS :

- 1885 (Part XLIV)-1978 Electrotechnical vocabulary: Part XLIV Piezoelectric devices
- 2916 (Part II)-1972 Quartz crystal units used in oscillators: Part II Type AA-01
- 2916 (Part III)-1972 Quartz crystal units used in oscillators: Part III Type AA-02
- 2916 (Part IV)-1972 Quartz crystal units used in oscillators: Part IV Type AA-03
- 2916 (Part V)-1972 Quartz crystal units used in oscillators: Part V Type AA-04
- 2916 (Part VI)-1972 Quartz crystal units used in oscillators: Part VI Type AA-05
- 2916 (Part VII)-1975 Quartz crystal units used in oscillators: Part VII Type AA-06
- 2916 (Part VIII)-1976 Quartz crystal units used in oscillators: Part VIII Type AA-07
- 2916 (Part IX)-1976 Quartz crystal units used in oscillators: Part IX Type AA-08
- 2916 (Part X)-1977 Quartz crystal units used in oscillators: Part X Type AA-09
- 2935-1964 Guide for use of quartz oscillator crystals
- 4570-1968 Specification for crystal holders
- 5575 (Part I)-1970 Temperature control devices for quartz crystal units: Part I General requirements and tests
- 5575 (Part II)-1978 Temperature control devices for quartz crystal units (heating type) : Part II Pin connection and bases
- 6133 (Part I)-1971 Piezoelectric filters for use in telecommunication and measuring equipment: Part I-General requirements for tests
- 6537-1972 Guide to the use of temperature control devices for crystal units
- 7410 (Part I)-1974 Guide to the use of the piezoelectric filters: Part I Quartz crystal filters
- 7957-1976 Basic method for the measurement of resonance frequency and equivalent series resistance of quartz crystal units by zero phase technique in a net work
- 7962-1975 Methods of measurement for piezoelectric vibrators operating over the frequency range up to 30 MHz
- 8011-1976 Methods for the measurement of frequency and equivalent resistance of unwanted resonances of filter crystal units
- 8271-1976 General requirements and tests for quartz crystal units used for frequency control and selection

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